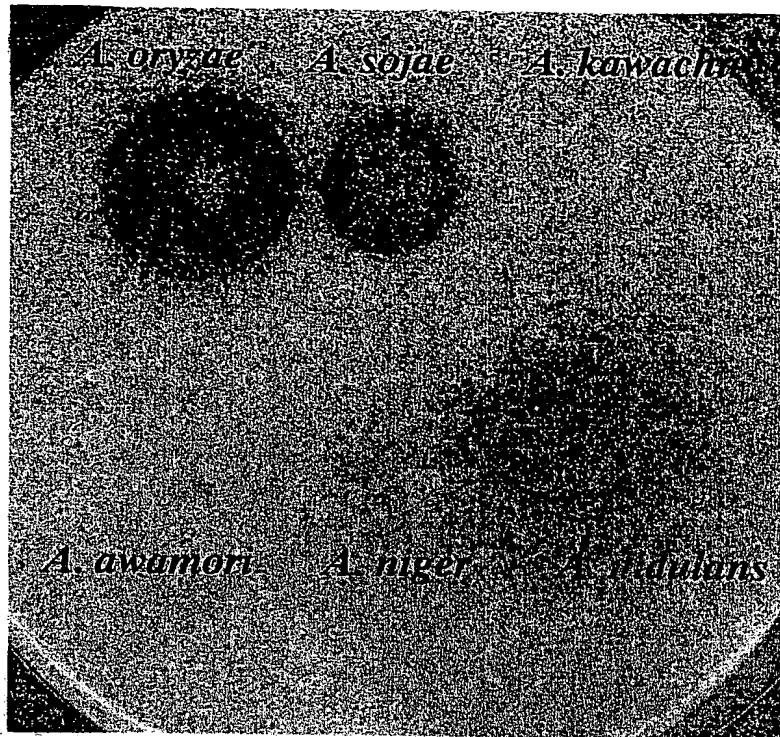
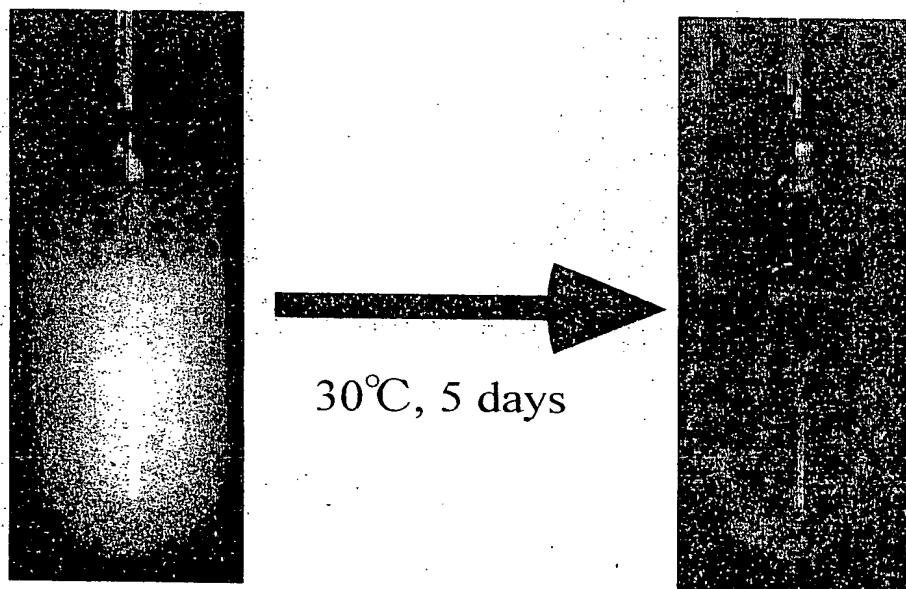


Replacement Sheet

1 / 28



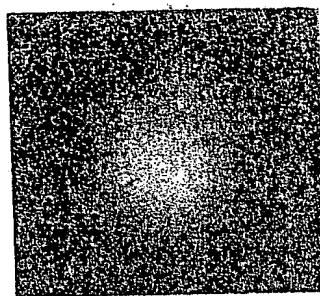
(A) Halo formation on PBS emulsion minimal agar medium



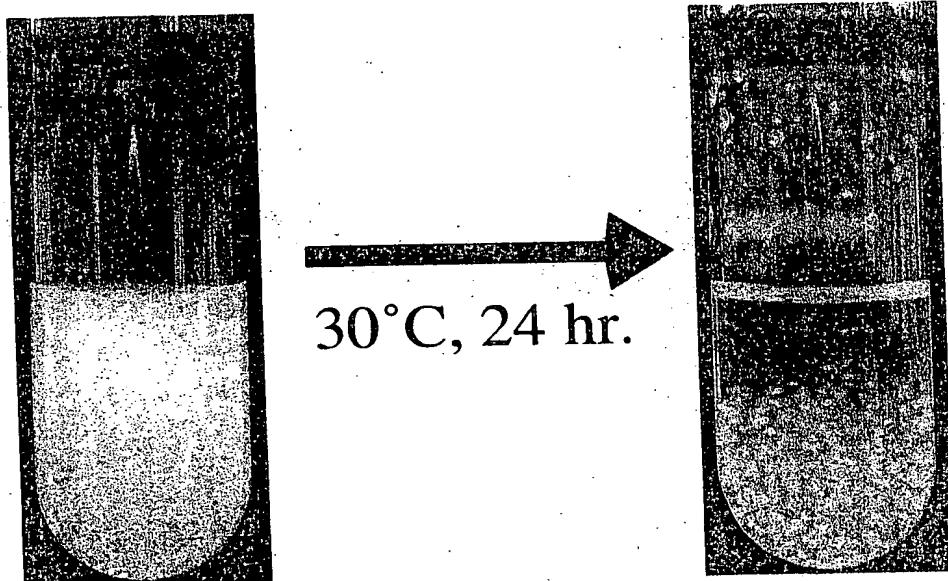
(B) Decrease in turbidity in PBS emulsion minimal liquid medium

F I G . 1

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(A) Halo formation on PLA emulsion minimal agar medium



(B) Decrease in turbidity in PLA emulsion minimal liquid medium

FIG. 2

7 /28

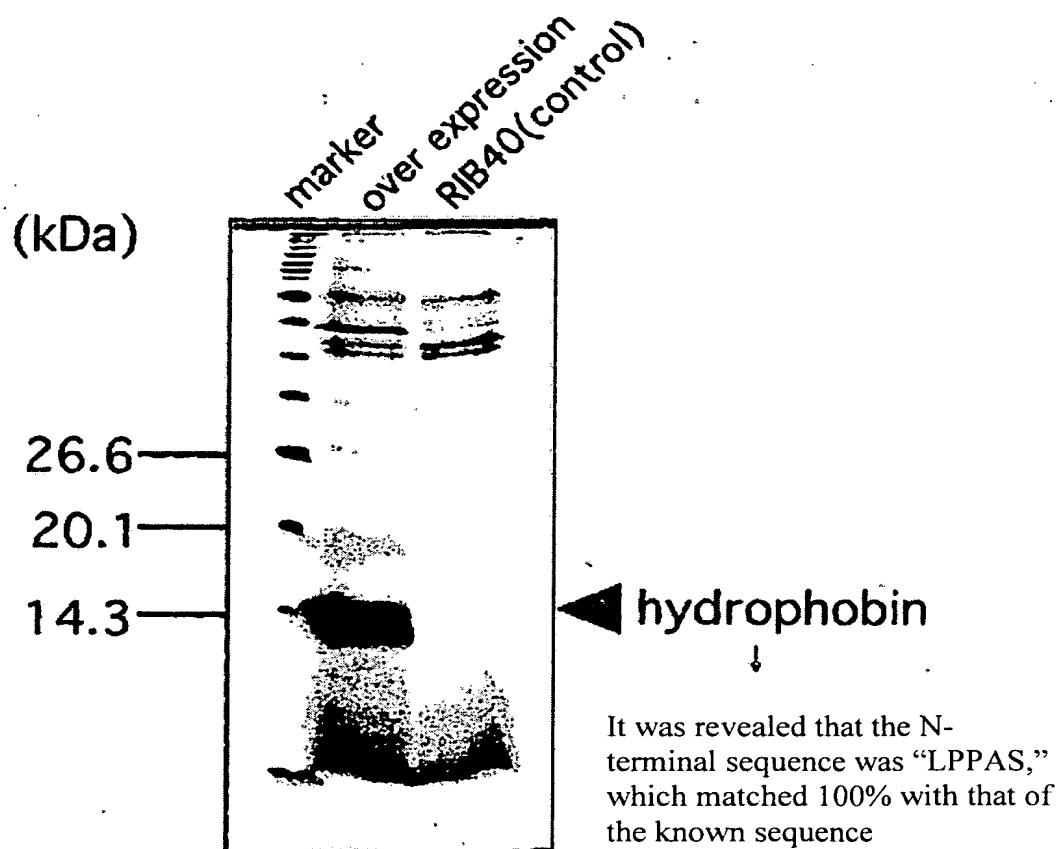
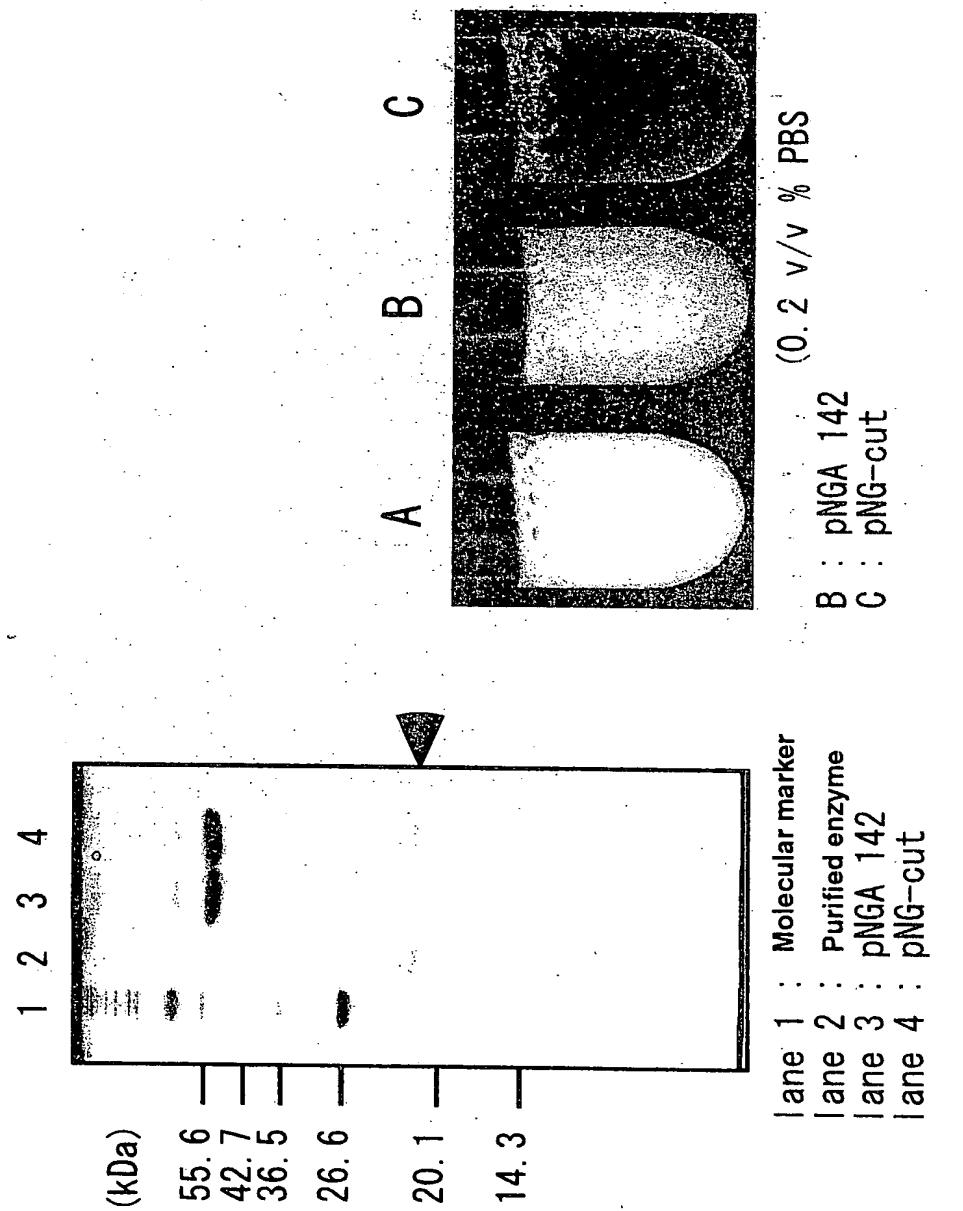


FIG. 8



SDS-PAGE

Detection of PBS-degrading activity

FIG. 9

Replacement Sheet

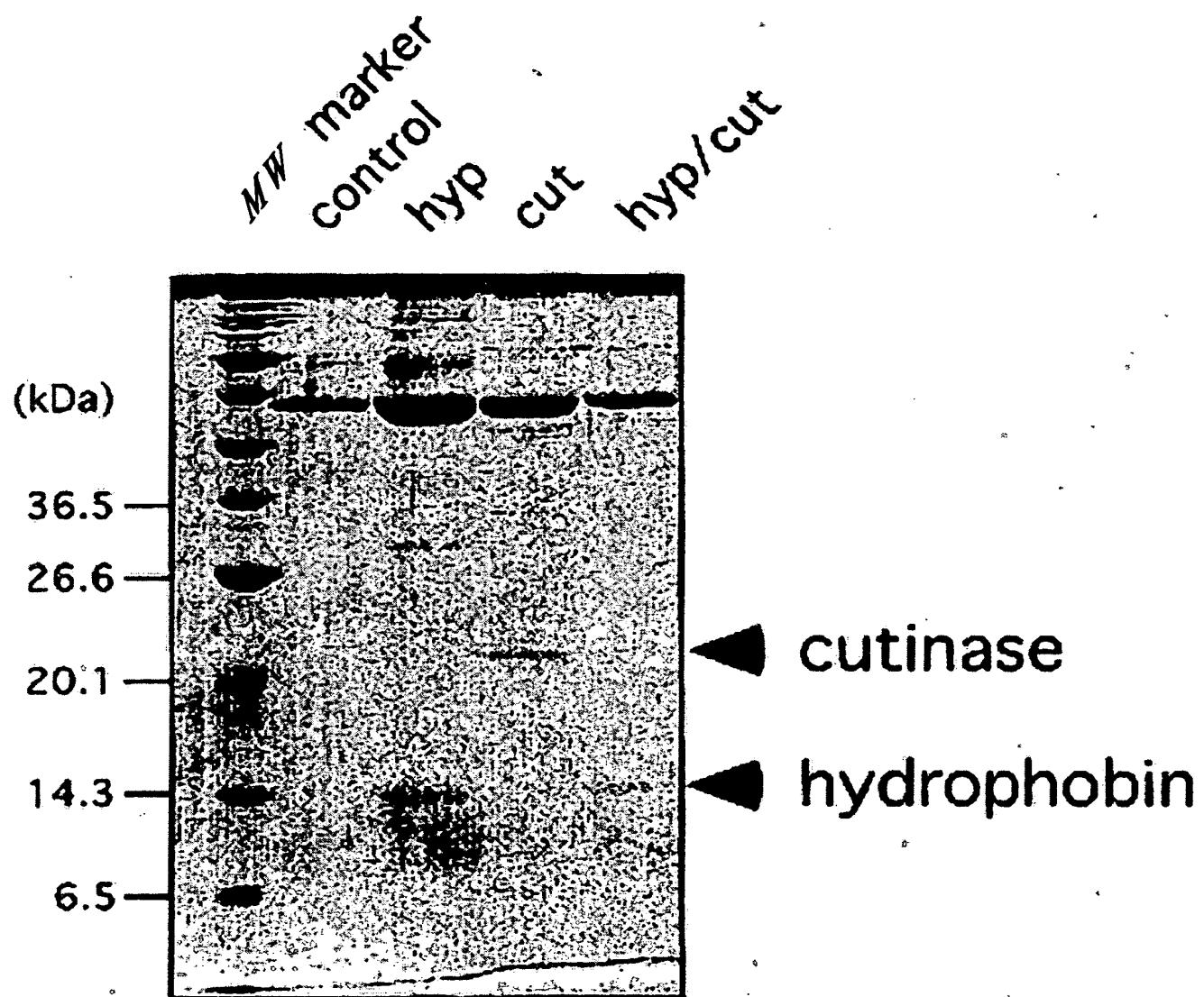


FIG. 11

Replacement Sheet

13 / 28

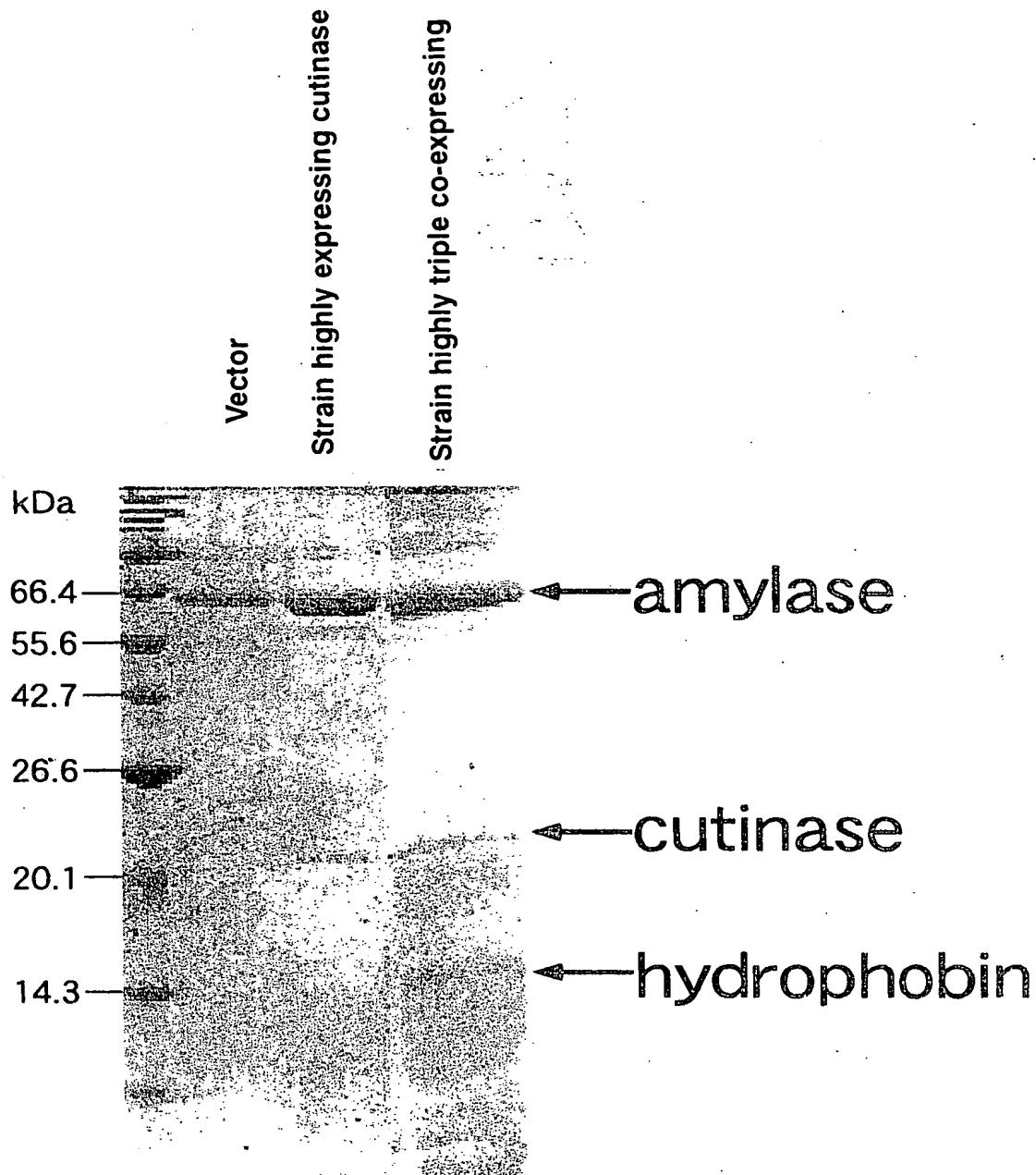


FIG. 14

Replacement Sheet

17 / 28

PBS



2.5 μ g/mL Purified
hydrophobin (Rol A)

Tris buffer pH8.0

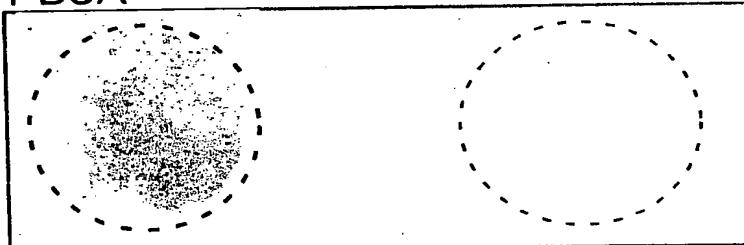
PLA



2.5 μ g/mL Purified
hydrophobin (Rol A)

Tris buffer pH8.0

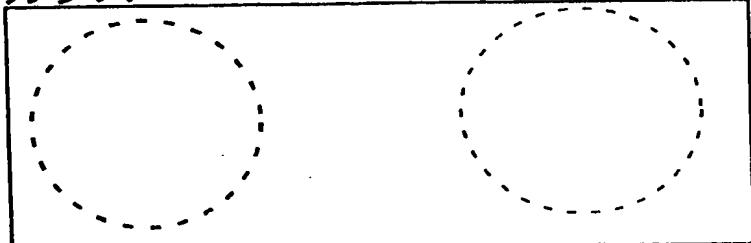
PBSA



2.5 μ g/mL Purified
hydrophobin (Rol A)

Tris buffer pH8.0

ガラス



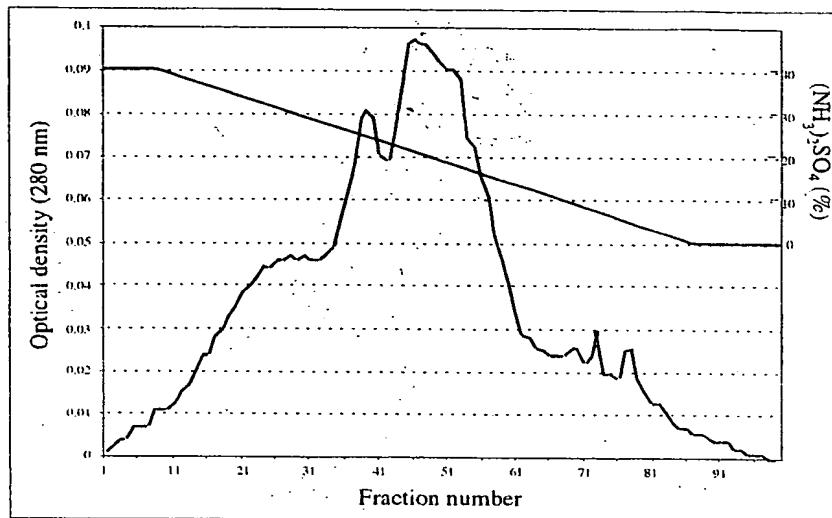
2.5 μ g/mL Purified
hydrophobin (Rol A)

Tris buffer pH8.0

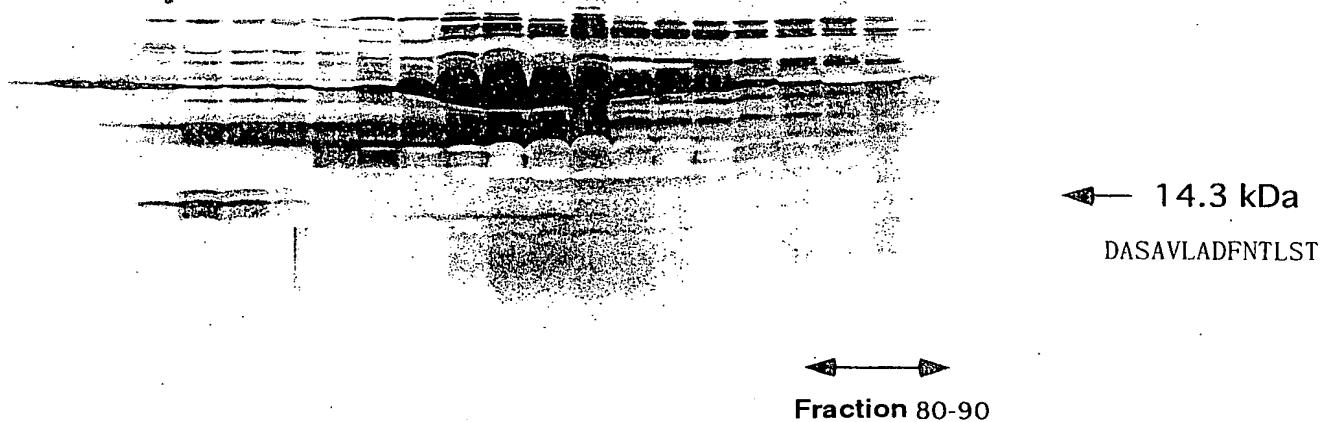
F I G . 18

Replacement Sheet

19 / 28



Protein concentration in an eluate fraction from octylcellulofine column



F I G . 2 0

Replacement Sheet

20/28

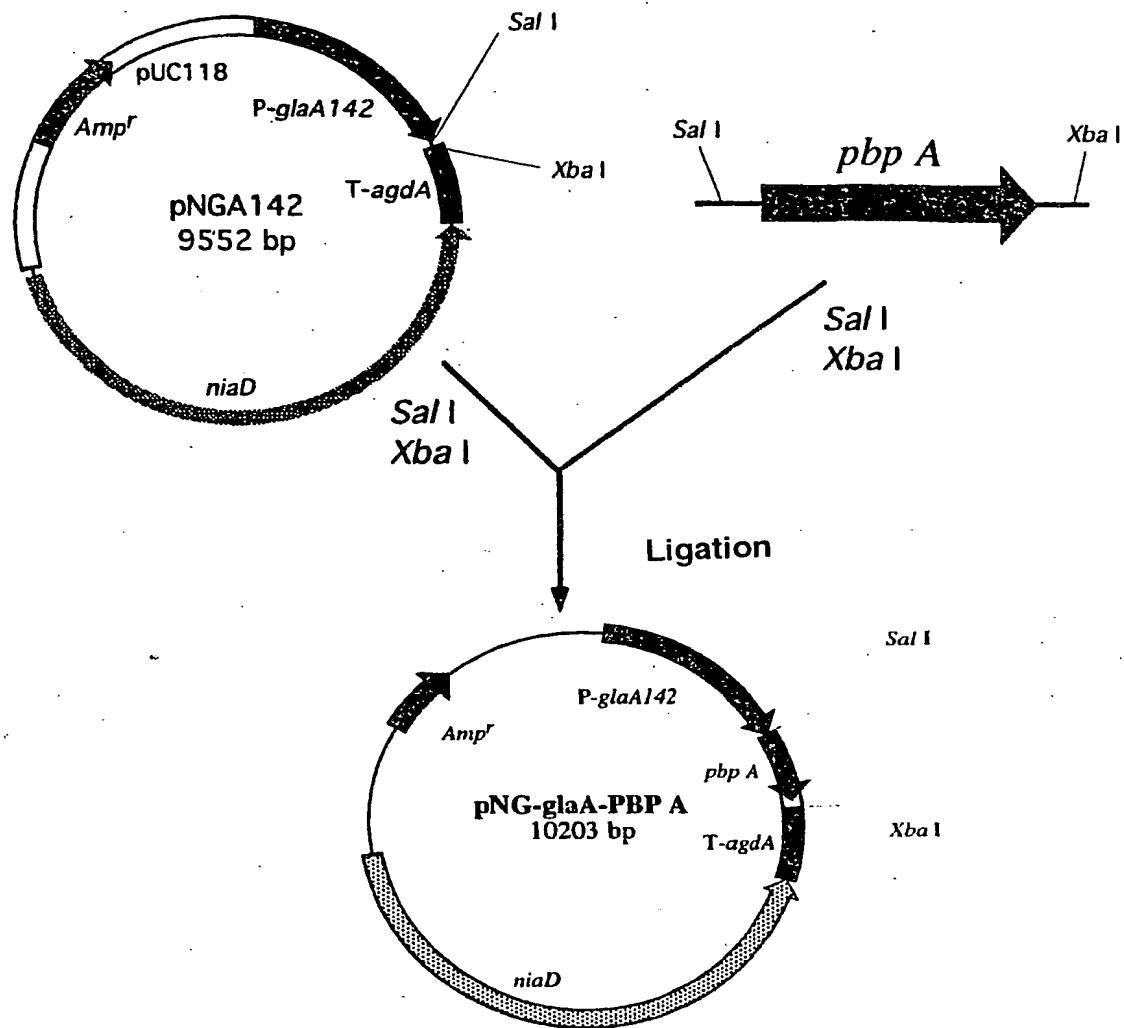
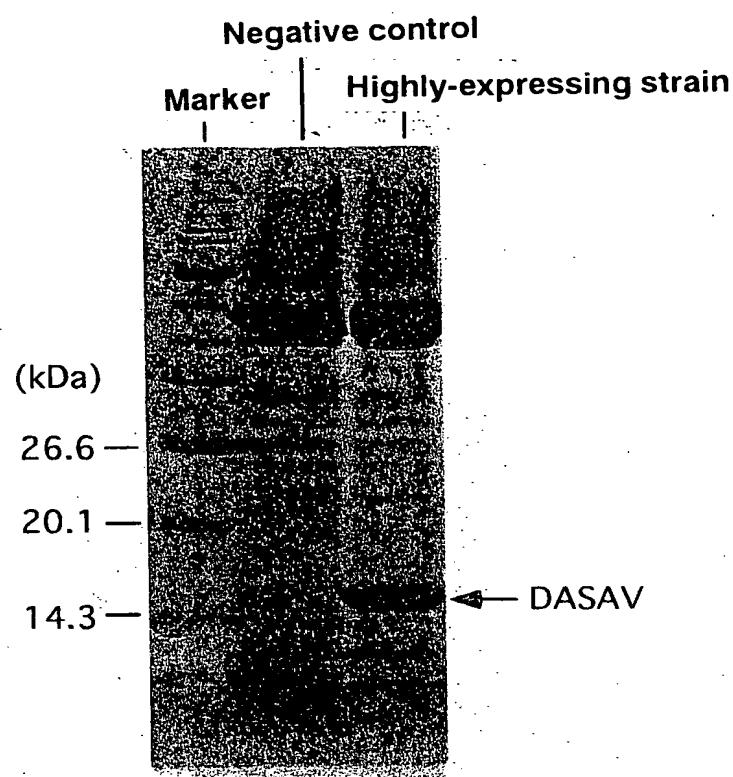


FIG., 21

Replacement Sheet

21 /28



F I G . 2 2

Replacement Sheet

22 / 28

Wild-type strain expressing PbpA

Strain highly expressing hydrophobin

PBS Pellet

Household Sponge

FIG. 23

Replacement Sheet

23 / 28

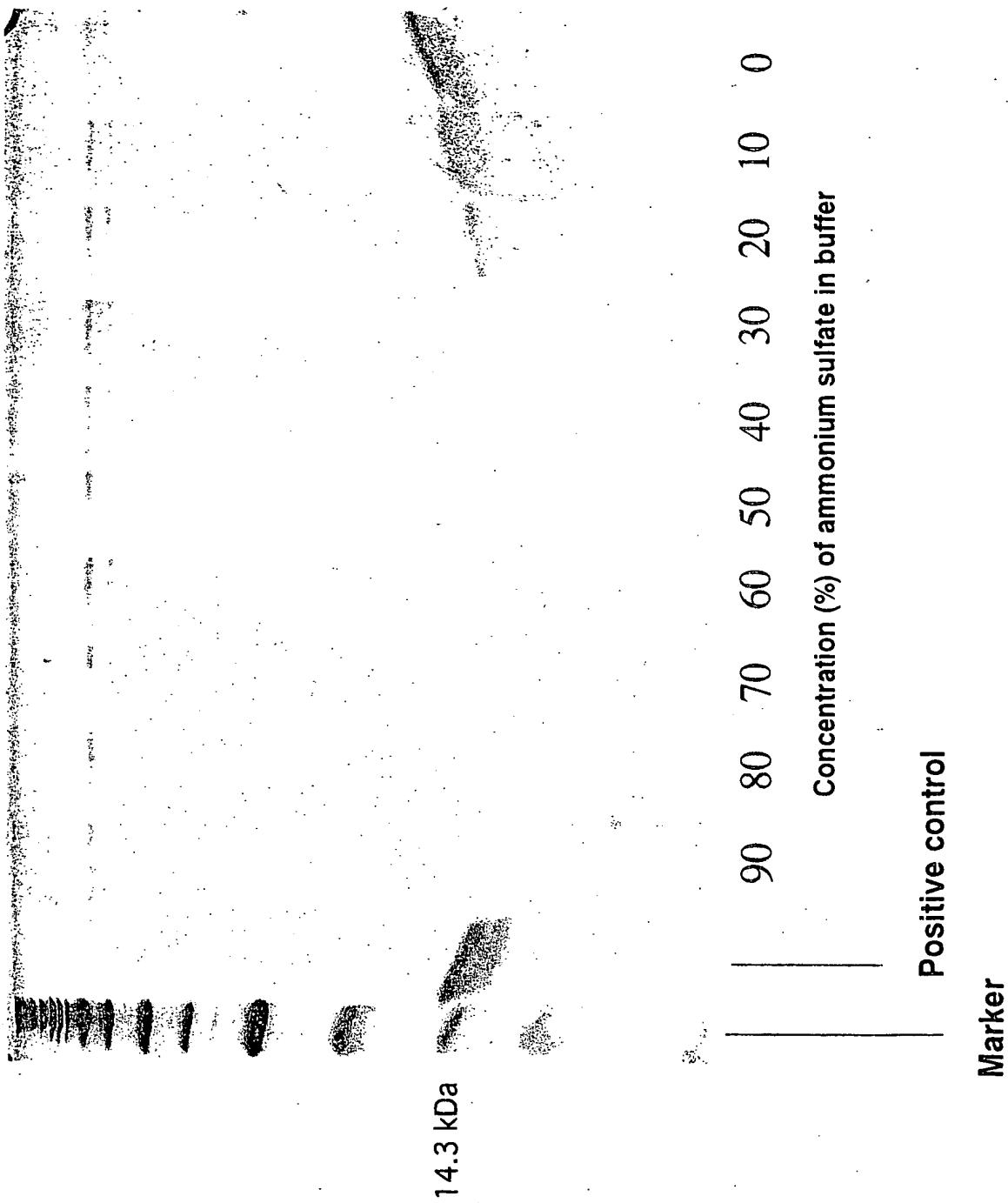
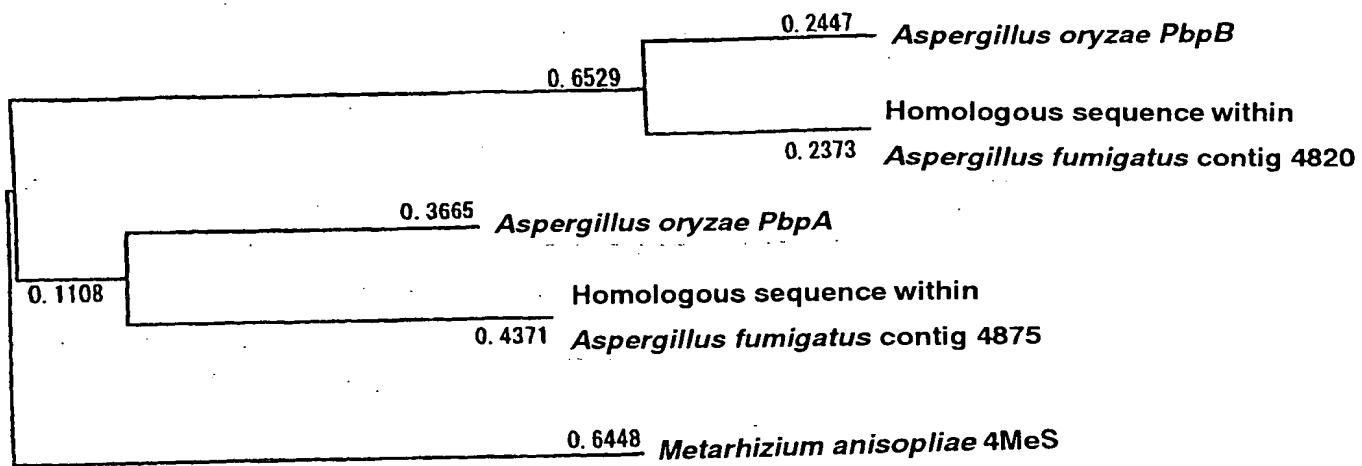


FIG . 24

Replacement Sheet

2 4/2 8



F I G . 2 5

Replacement Sheet

25 /28

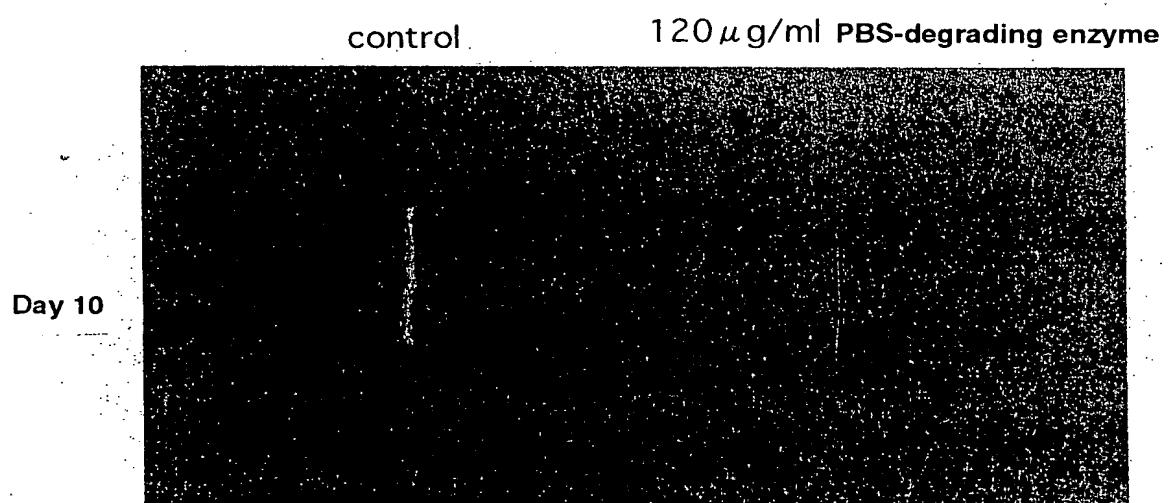
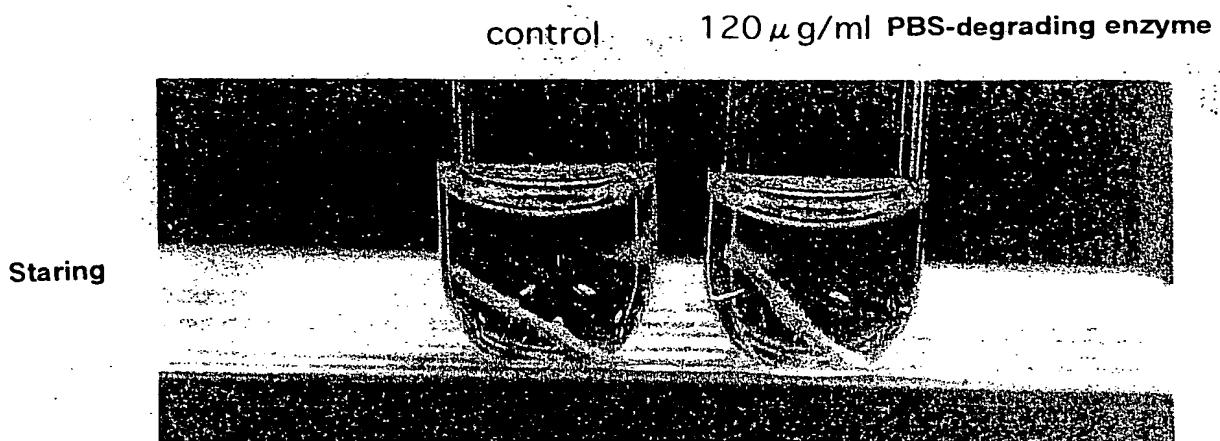
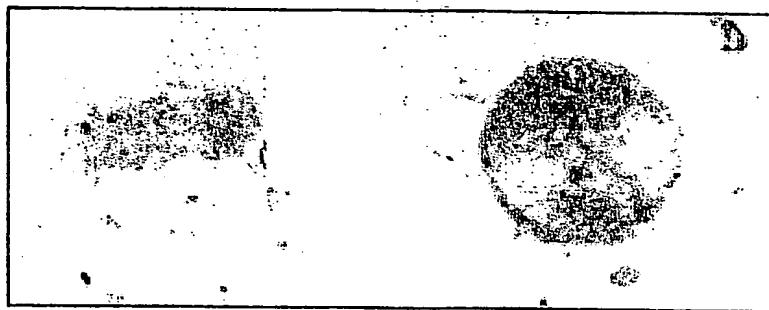


FIG. 26

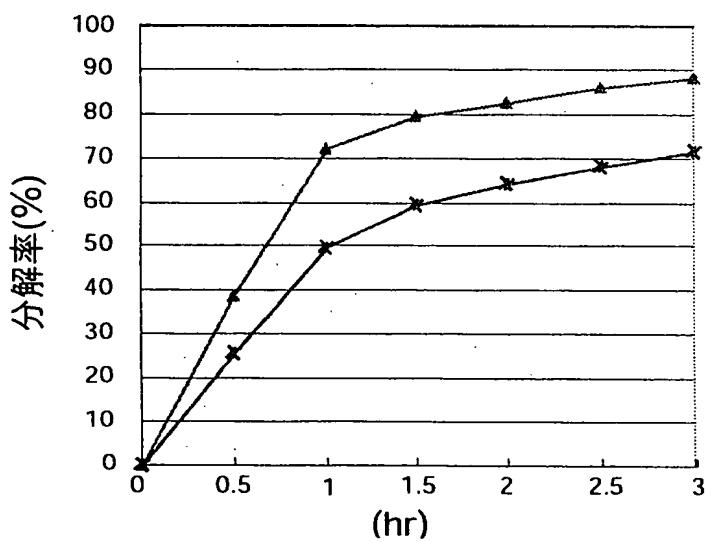
Replacement Sheet

26 / 28



$20 \mu\text{g}/\text{ml}$ cutinase $2.5 \mu\text{g}/\text{ml}$ RoIA + $20 \mu\text{g}/\text{ml}$ cutinase

F I G . 27

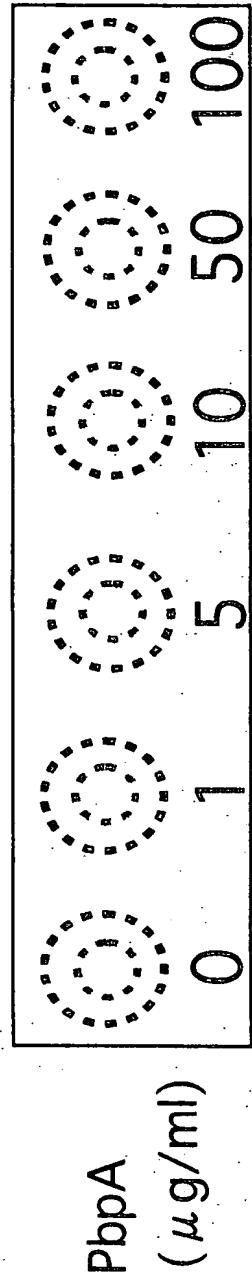


Promoting effect of RoIA for the degradation of PBS
—▲— RoIA ($0.025 \mu\text{g}/\text{ml}$) + cutinase ($50 \mu\text{g}/\text{ml}$)
—★— cutinase ($50 \mu\text{g}/\text{ml}$)

F I G . 28

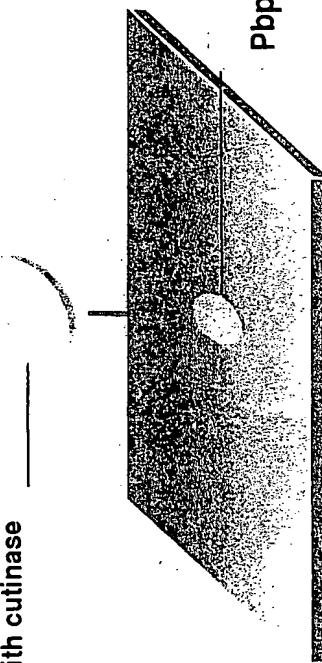
Replacement Sheet

27 / 28



As the PBS film was taken as a transfer imaging, the black parts show the degradation

Filter paper soaked with cutinase



PbpA dried and attaching to PBS film

FIG. 29

Replacement Sheet

28 / 28

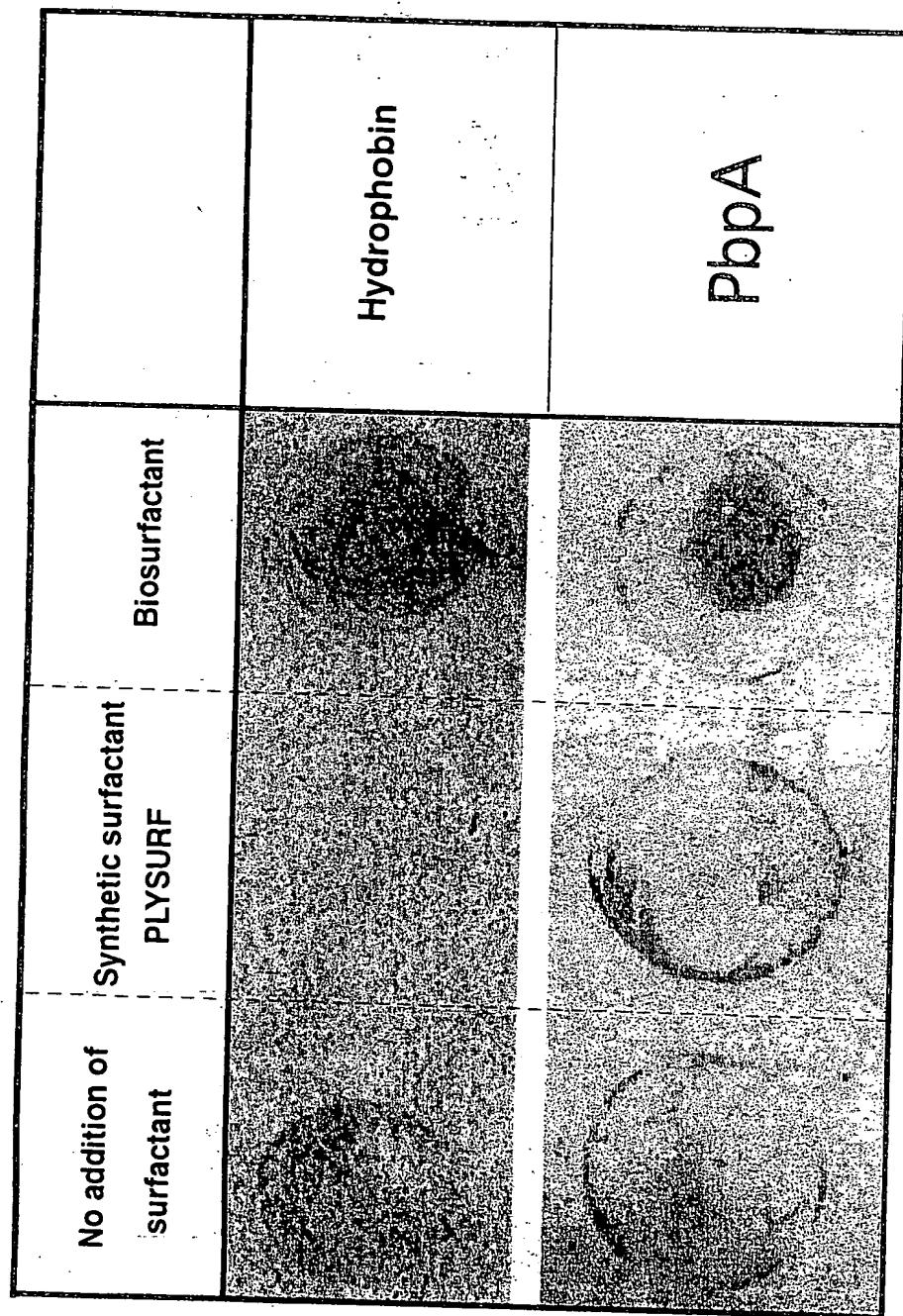


FIG. 30

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